

'We're in the business of selling change,' says tech-transfer guru

Commercializing university-based R&D focus of day-long business conference

By Michael Robb

Technology transfer guru Fred Rodgers, the president of California-based Select University Technologies Inc, had the usual business-minded suggestions for commercializing university-based research for his audience at last week's conference, *Entrepreneurial Approaches to Commercializing University-based Research*.

However, his listeners are probably going to remember much more vividly his comments on the cultural forces at work in society that inhibit bringing new ideas to the market. In fact, he invited his listeners to remember that you can never underestimate the amount of energy people will spend on resisting change.

Rodgers told a packed audience of professors, bankers, entrepreneurs and businesspeople that many of the problems associated with commercializing university-based research stem from people's belief systems. The "money people" have a different paradigm than those who want to introduce new technology into the market and those same investors often respond destructively because of the different expectations they bring to the venture.

Rodgers invited his listeners to turn to other disciplines for answers, "because you won't find a book on how to commercialize products in five easy steps."

"We're selling change; we're in the business of paradigm shifts, and all the

literature says people resist change. This is not business, this is sociology." Read the stories about how the innovative products have been commercialized, and never forget that there has never been a product that the venture capitalists recognized as the next Polaroid, he said.

Rodgers also tried to dissuade his listeners

from thinking about commercialization as a linear process. It actually follows a bell curve, he said, and those who figure that out can act accordingly.

Rodgers had some practical suggestions. Eliminate the losers in the beginning. Have a product vision and concept. Avoid incremental funding and pay attention to how deals are structured. It's okay for the money people to have expectations, but make sure they're in line

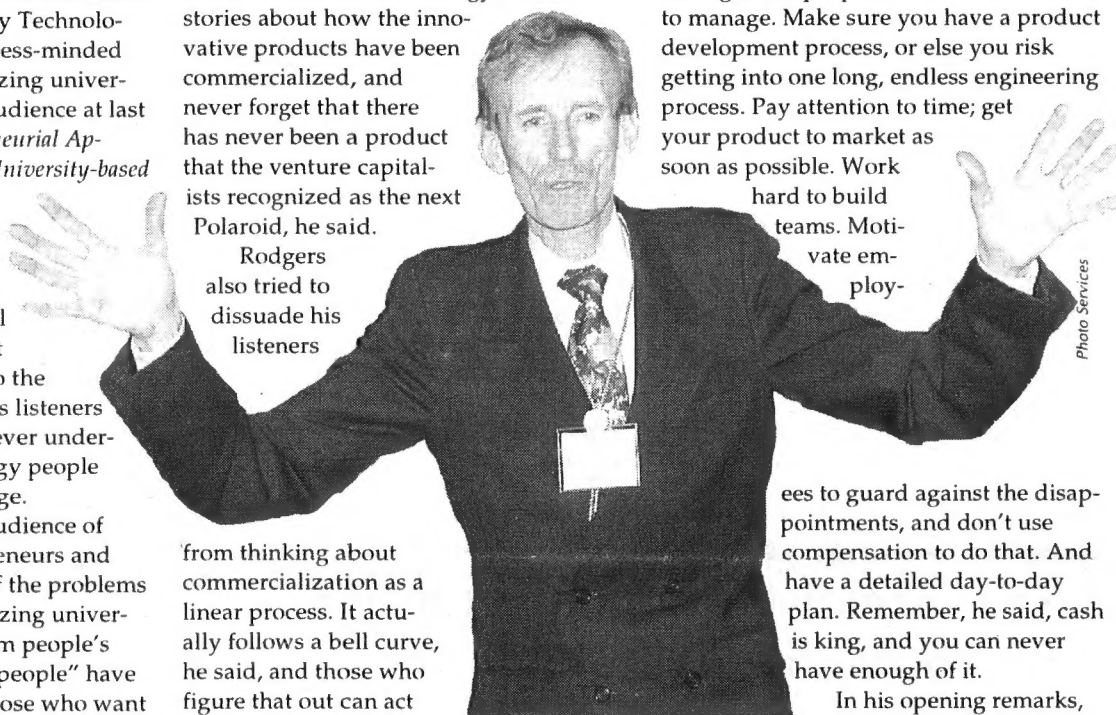
with your own, he advised. Hire good management people, because there's a lot to manage. Make sure you have a product development process, or else you risk getting into one long, endless engineering process. Pay attention to time; get your product to market as soon as possible. Work

hard to build teams. Motivate employees.

ees to guard against the disappointments, and don't use compensation to do that. And have a detailed day-to-day plan. Remember, he said, cash is king, and you can never have enough of it.

In his opening remarks, Dean of Business Rodney Schneck said historically Canada has done a poor job of commercializing technology. He said markets are vicious and unpredictable, and that's why it's so important to understand them and keep tight control of costs.

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Fred Rodgers says that you can never underestimate the amount of energy people will spend on resisting change.

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Edwin Cossins and Gordon Swaters recognized for teaching and research, respectively

Canada deserves a national health system, says Noseworthy

Fundamental redesign needed, not just downsizing

By Judy Goldsand

We have understood for some time that Canada's health care delivery system as we have known it was not sustainable, Tom Noseworthy, chair of the University of Alberta's Department of Public Health Sciences, said last week.

Dr Noseworthy, who also chairs the steering committee for Canada's National Forum on Health, addressed the 53rd Annual Meeting of the Association of Canadian Medical Colleges (ACMC) held in Edmonton.

Canada's health care system, despite its many successful features, has shown its

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Coordinating Council of Health Sciences is a fast-acting team

Health sciences Deans pool their resources and expertise

By Ron Thomas

The goals are ambitious—national and world leadership in interdisciplinary education for the health sciences, in interdisciplinary health research, and development of centres of excellence. But the Coordinating Council of Health Sciences (CCHS) is well on the way to achieving those goals for the University of Alberta.

Beginning almost a decade ago with occasional informal meetings of the Deans of health sciences faculties on campus, CCHS now meets on a regular two-week schedule, winter and summer. "It became obvious that there were a lot of common issues," says Doug Wilson, former Dean of the Faculty of Medicine. "We responded to a number of major initiatives such as the Premier's Commission on Health Care for Albertans, the Rainbow Report, and, within our own University, to the *Quality First* document."

It was in their response to *Quality First* that the Deans first made a formal commitment to teamwork. They proposed a number of collaborative strategies that

would assist in reaching the goals identified in *Quality First*. These included development of a formal structure to provide leadership in the development of interdisciplinary efforts in teaching, research and formation of public policy in the health sciences.

"We've found ways to share learning resources. But our most important achievement is the ability to support each other in acting quickly to respond to opportunities for innovation."

Marnie Wood, Dean of Nursing

ciplinary efforts in teaching, research and formation of public policy in the health sciences.

"When organizations are faced with turbulence, increased public expectations and funding reductions, there's often a temptation to respond by fiddling with the organizational chart," says Donna

Lynn Smith, of the Faculty of Nursing, who was seconded by CCHS last July to become its Executive Director. "Another option is to make sure the goals are clear, and then to create incentives and support systems for the teamwork that's needed to accomplish goals. That's a key decision that was made when the University's central administration endorsed the mandate that Council proposed for itself in 1994."

In a recent presentation to the U of A Senate, CCHS reported that teamwork is producing both quality improvement and innovation. A new interdisciplinary process for ethical review of health research proposals has been developed by the research subcommittee of CCHS. It will replace separate processes in each of the health sciences faculties, and will be coordinated with the Capital Health Authority. Other subcommittees are working in the areas of education, health promotion and international activities.

The health promotion subcommittee has been instrumental in the formation of

a Centre for Health Promotion Studies on campus. A proposal to Alberta Health was successful in generating start-up funding and more than 300 enquiries have been received from students interested in the graduate diploma and master's degree in health promotion studies that will be offered through the Centre.

"These programs respond directly to the needs of the Regional Health Authorities, and can help to develop the capacity of our health system to promote health and prevent illness," says Art Quinney, Dean of Physical Education and CCHS's liaison to the health promotion subcommittee.

Another of the initial commitments of CCHS was to develop innovative educational models to enhance the ability of future health care professionals to effectively participate in the system's interdisciplinary milieu. "Our interdisciplinary course Team building and Ethics in Health Care is a real success story," says Dick Moskalyk, Dean of Pharmacy and Pharmaceutical Sciences.

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Huge environmental research conference organized by students

Demonstrates the extensive research going on, says one of the organizers

By Michael Robb

A huge conference held earlier this week was an opportunity for people to learn what others are up to and establish better communication and understanding among the disciplines, says one of the conference's organizers.

Andy Hammermeister, the chair of the conference planning committee for *The Future of Our Environment: Research at the University of Alberta*, says the idea for the massive conference really flowed from a realization among a group of graduate students in the Department of Renewable Resources. "We didn't really know what others were doing."

Clearly, says the graduate student, the campus is alive with environmental research in a multitude of departments. The conference was unique: it was the first of

its kind, it was completely interdisciplinary and it was entirely organized by graduate students.

The conference attracted more than 250 people; 85 graduate students presented their work in several disciplines, agriculture, anthropology, geology, forestry, wildlife, engineering and law. Well over 50 undergraduate students attended the conference, and many off-campus people also attended.

Particularly heartening for organizers was the level of sponsorship the conference attracted. Many of those sponsors were corporations doing business in the province and professional associations representing several different disciplines. There was also a lot of on-campus support, Hammermeister adds. ■



CH (Charlie) Weir, a member of the Natural Resources Conservation Board, left, and Trevor Maine, Director of Communications, APEGGA, converse during a break at the research conference on the environment.

National health system

Continued from page 1

original design to be outdated, he said, and it has not been adapted to take into account substantial changes in practice and technology, and the evolution of hospital services. Among the shortcomings Dr Noseworthy noted were: pharmaceuticals are not covered in the public system and are only covered in hospitals; early hospital discharge patterns are shifting costs onto individuals and families; and currently, Medicare and the Canada Health Act do not apply to home care services.

But Dr Noseworthy remains a strong advocate for maintenance of a national system. In his view, the single-payer, publicly administered model of health financing in this country, portable between provinces, has served Canadians well. He forsee that as individual provinces try different strategies to reduce costs, over time the provincial systems are likely to become progressively divergent, unless there is a deliberate effort to maintain national consistency and standards.

Dr Noseworthy suggests caution in looking at health care as a commodity. In his view, market forces work fine for the 'haves', but perhaps not so well for the 'have nots'. He believes that treating health care as a commodity will pose great threats to the vulnerable segments of the population and have potentially greater costs to society, both short- and long-term.

The process of health care reform and restructuring has affected every Canadian, says Dr Noseworthy. But there is more going on than health care reform. "In reality, it is my view that this country is moving through a period of profound social transformation."

Dr Noseworthy calls for a new health system to emerge which is far more than a health care delivery system. Its aim should be to improve and maintain the health of the population. To achieve this national health system, he believes there has to be complete reconsideration of the organization of health care delivery — a fundamental redesign, not just downsizing.

"In my view, all public policy needs to be reviewed within the context of its impact on the population's health. Thus, as a country, consistent with our values and based on the best available evidence, we need to undertake a range of comprehensive approaches to create living and working conditions which promote health, to strengthen community action, to develop personal skills for health, and to reallocate societal resources to this."

Dr Noseworthy's address posed a formidable challenge to the conference's 400 participants, and to all Canadians.

Other speakers at the meeting included Premier Ralph Klein; Dr Judith Kazimirski, president-elect of the Canadian Medical Association; and Dr Joseph Martin, a University of Alberta alumnus who is Chancellor of the University of California, San Francisco.

Delegates participated in programs that focused on the recent changes which affect the delivery of health care, and the impact of these changes on the delivery of educational and research programs in Canadian medical schools. Besides looking at the future of the Canadian health care system from a number of perspectives, plenary sessions addressed education, research and funding issues. ■

Wanted: U of A United Way Campaign Chair and Loaned Rep

By Folio staff

The University United Way Campaign is looking for a few good men and women. Specifically, the 1996 campaign committee requires a chair, co-chair, committee chair and volunteers.

In return for their time and commitment, people who answer United Way's call gain invaluable organizational skills and fundraising experience while "increasing the capacity of people to care for one another."

If you would like to serve on the 1996 campaign committee as chair, co-chair, committee chair or volunteer, please call John Barry immediately (492-3341).

Additionally, the Edmonton United Way Committee is looking for a Loaned Representative from the University of Alberta. The 12-week secondment runs from 28 August to 17 November. The first week will be spent in training at the United Way office. The remaining 11 weeks will be spent organizing United Way activities in Edmonton. No fundraising experience is needed. Training consists of United Way orientation, public speaking, sales promotion, presentation and negotiation skills, and goal setting.

Central administration will reimburse your department for your salary. But, as

Gail Bamber, a former Loaned Representative from the Office of the Vice-President (Academic), points out, "There really is not a price tag that one can put on an experience such as this."

The application deadline is Friday, 17 May. Please submit your résumé, with your supervisor's written approval, to: John Barry, Director, Operation, Faculty of Physical Education and Recreation, W1-34 Van Vliet Centre. Fax: 492-1008.

Glenn Harris, Vice-President (Finance and Administration), will make the final selection. ■

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Folio's mandate is to serve as a credible news source for internal audiences by communicating accurate and timely information about issues, programs, people and events.

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University
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Federal minister hopeful granting council funding will stabilize

Haven't been immune from cuts, Gerrard says

By Michael Robb

The Secretary of State for Science, Research and Development says he's going to work very hard to ensure that further cuts to the granting councils will not happen. But he's not making any promises.

Jon Gerrard says precisely what happens may depend on interest rates and economic growth.

Over the last two years, most areas in the federal government have been cut in order to "get us in a position to balance revenues with expenditures. The granting councils, unfortunately, have not been exempt from those cuts."

He acknowledged that Minister of Industry John Manley and he were not as successful as they would have hoped for protecting granting council budgets.

"However, we were successful in getting a variety of new funding mechanisms, the technology partnerships program, CANARIE, and the space program, for example. So, when you consider the new investments and the cuts, science and technology has done better than most other areas," the Minister said.

Dr Gerrard said the spending changes the federal government has made have gone a long way, from a deficit of six percent of GDP to three percent this year. "We're getting close with the budgetary changes toward a balance in terms of borrowing requirements, and at that point we would not need to make further cuts."

He suggested that there are still a number of policy development areas where work is required.

We've set three goals: ensuring we're doing world quality basic research, apply-

ing it to improve quality of life and commercializing it, Dr Gerrard said. "The area which is clearly weakest is the commercialization. Yes, proportionately more of our resources have to go where we are weakest.

"Historically, we have done this very poorly. We've put in place a number of instruments at the federal level to improve this. There are some really good examples of large numbers of spinoff companies resulting from activities at some universities. But there's a need yet to understand what is the best practice, to develop further through research increased knowledge about what works and what doesn't work, so what we do in this area is done well and efficiently."

Dr Gerrard said there have been occasional areas of friction between universities and the government's research agencies. But he said the government would continue to emphasize programs that bring people together. For example, the National Research Council and the Natural Sciences and Engineering Research Council have established a partnership. It may be time for NSERC to discuss a three-way partnership with Agriculture Canada, the Minister suggested.

The Manitoba Member of Parliament met with Deans' Council, 19 April. Following the meeting, he spoke with *Folio*.

The federal government recently released a policy paper, *Science and Technology for the New Century*, following an extensive series of public consultations. In that paper, the government lays out its plans to improve the management of its investments in science and technology. ■

Mark your calendar

University of Alberta
Annual General Meeting

18 September 1996

Edmonton Convention Centre

Everyone is welcome to this meeting.

Welcome at 10:30 am

Meeting at 11:00 am

New practical source for islet transplantation

Postdoctoral fellow chalks up another milestone for transplant team

By Judy Goldsand

"Insulin-independence for the diabetic patient is the main goal of our research," says Ray Rajotte, referring to his colleagues on the University of Alberta's islet transplant team. "And Greg Korbitt's discovery of a new source of islets has moved us a step closer to achieving it."

Dr Korbitt, a postdoctoral fellow working in the area of islet transplantation, has shown that large numbers of viable islets can be successfully isolated from the newborn pig pancreas. This is an abundant, convenient and much cheaper source of islets than those from human organs.

This new source of islets has the potential to improve the quality of life for many diabetic patients, says Dr Korbitt. It is good news for the 1.5 million Canadians who have diabetes, and especially for the 15 to 20 percent of them who require insulin therapy. For long-term diabetics, often it is not the diabetes itself that is the main problem but the disabling complications (e.g., kidney failure, loss of eyesight) that result from the disease.

Dr Rajotte explains that insulin-dependent diabetes is caused by progressive destruction of the insulin-producing cells in the pancreatic islets of Langerhans. This eventually leads to a life-long dependence on insulin therapy. Since the pancreatic islets alone produce all of the insulin required by the body, one approach to treating diabetes involves the processing of normal human donor pancreases to separate the islets from the remainder of the pancreatic tissue. The "isolated" islet tissue is then transplanted into the liver of a diabetic patient, allowing normal blood glucose levels to be restored.

Transplantation of the whole pancreas is another treatment for diabetes, but it is a major surgical procedure not suitable for many patients. The islet transplant tech-



Dr Greg Korbitt wants a closer look at the pancreatic islets taken from a new source.

nique involves minor surgery whereby the insulin-producing cells taken from donor pancreas glands are injected into a vein that then carries them to the liver.

An important milestone in islet transplant research was Dr Rajotte's discovery (1975) at the U of A of a method to cryopreserve (freeze) islets indefinitely. In 1989, another breakthrough occurred here when Canada's first islet transplant with long-term survival was carried out by the team of Drs Rajotte, Garth Warnock, Norman Kneteman, Eddy Ryan and Alex Rabinovitch.

Dr Rajotte says one of the main barriers to islet transplantation has been the limited supply of donors. Because a great many islets are required for patients who have diabetic complications, the transplant team has used a combination of fresh islets, supplemented with cryopreserved islets.

Dr Korbitt explains that pig islets represent a practical solution to this shortage, since pigs are readily available and

they exhibit many biological characteristics comparable to man. Pig insulin is also very similar to human insulin and has been used safely for treating type 1 diabetics for decades.

Their research has shown that adult pig islets are extremely fragile and difficult to isolate on a consistent basis. A major advantage of transplanting newborn pig islets is that they are able to differentiate and grow, thus yielding about 30-fold more insulin-producing cells than were originally transplanted.

Another major obstacle in islet transplantation is the need for ongoing immunosuppression to prevent rejection of new tissue, says Dr Korbitt. "If we want to make transplantation the therapy of choice, and especially if we want to transplant the juvenile diabetic, we have to be able to transplant without immunosuppression." So although a solution to the islet supply problem has been found, the rejection issue must be resolved before this technique may be widely used.

NEW SOURCE OF ISLETS A SOURCE OF HOPE FOR DIABETICS

The ability of newborn pig islets to differentiate and grow, yielding about 30-fold more insulin-producing cells than were originally transplanted, is an exciting prospect for researchers and for people with diabetes.

"Edmonton is very fortunate in having a strong interdisciplinary team working in the area of diabetes," says Dr Ray Rajotte. "Dr Korbitt's discovery of a new source of islets has far-reaching implications."

It is a great advantage to be able to transplant cells that are still dividing and growing. Because the tissues can grow, molecular biology techniques might be used to introduce genes with desired characteristics into the transplanted cells. Theoretically, islets could not only secrete insulin, but might also contain genes that allow the cells to secrete proteins that could block immune cells from attacking the islets.

Scientists in several areas are working in the area of immunosuppression. Dr Rajotte is hopeful that the research being done in molecular biology by John Elliott (Medical Microbiology and Immunology) and Alex Rabinovitch (Endocrinology), in animal science by Walter Dixon and George Foxcroft (Agricultural, Food and Nutritional Science), and in xenotransplantation by Randall Yatscoff (Laboratory Medicine and Pathology) will, in the foreseeable future, help to solve the rejection problem and give people with diabetes a choice of good therapies for the disease.

With a PhD degree from Brussels University, Dr Korbitt returned to the University of Alberta in 1994 to work as a postdoctoral fellow with the transplant team. He had first worked with Dr Rajotte in 1982 as a technician after graduating in biosciences from NAIT, then continued at U of A through undergraduate (BSc 1985) and master's level studies (MSc 1988). ■

Book in progress promises to be a juicy read

By Folio staff

A group of University employees is adding a fresh ingredient to this year's United Way Campus Campaign.

Seeking to "rekindle a sense of community on campus by involving as many people as possible," the group is publishing an eight-category cookbook.

"We know there are many people out there who have created culinary delights and here is a venue for you to share your favourite recipe," says the group's chair, Gail Bamber.

Recipes are invited from all members of the campus community, and should be submitted to Gail Bamber, c/o 1-11 University Hall (fax 492-9671), by 15 May. Recipes do not have to be originals but if they're not, acknowledgement of source must be provided under copyright law.

Each individual's name and department will be printed with their recipe(s) in the cookbook.

Following a draw on 31 May, prizes will be awarded in the following categories: Appetizers and Beverages; Salads and Dressings, Soups and Sauces; Vegetables; Main Dishes; Breads; Desserts; Canning; Extra Special.

Meeting of Minds and Menus, priced at \$10, will be available October 1996. Watch for pre-sales and tables in SUB and/or HUB in October/November. The cookbook can also be purchased at the University Bookstore.

All proceeds, after production costs are covered, will be donated to the 1996 University United Way Employee Campaign. ■

Selling change *Continued from page 1*

Vice-President (Research and External Affairs) Martha Piper said universities and industry are entering into partnerships like never before. The last decade has had a profound impact on industry and the university community; both have realized that isolation from one another has been harmful.

The conference also heard from representatives working to end that isolation. University of British Columbia Industrial Liaison Officer Al Fowler said it's in universities' best interest to establish spinoff companies and hold equity positions in those companies. They are small, focused and committed to getting their product out the door. He questioned whether it was worth the time attempting to sell ideas to Fortune 500 companies, which are typically very conservative and simply end up buying the spinoffs when their products have been proven.

"Spinoff companies, on the other hand, are sort of like children: they turn out not too badly if you give them a lot of care and attention."

University of Alberta Industry Liaison Office (ILO) Director Jim Murray agreed. Spinoff companies are also a way of encouraging local economic growth. Simply licensing Fortune 500 companies means the benefits accrue far away from Canada and western Canada in particular.

There are limits, suggested some speakers. Fowler said one of the very real problems is universities have not changed their ways of evaluating research to encourage more commercialization. Added Murray, a patent application involves every bit as much or more work as a reviewed publication. Patents should be equivalent to reviewed publications in evaluations, he said.

"You have to remember a university is not a Bell Labs," responded Joel Weiner, Associate Dean (Research) of the Faculty of Medicine. "We have other things to do, teach and do discovery-level research, much of which may not lead to something commercial for 30, 40 or 50 years. If we put too much emphasis on commercialization, the discoveries aren't going to be there to commercialize in the future. We have to have that balance."

Dr Weiner pointed out that 50 or 60 out of 200 faculty members in Medicine are looking to start spinoff companies. "That's a pretty darn high ratio, and I wouldn't expect it to be higher."

Gerry Tertzakian, a senior adviser with ILO, added that it's not realistic to expect that all technologies or inventions developed at universities are commercializable or, even more so, that there will be interest in commercializing them. Some professors are content simply

to publish, and there's nothing wrong with that. "As we fill the pipeline with successful spinoff companies, and as other faculty members see these successes, the paradigm will probably change slowly."

"Researchers are good at doing research, but not necessarily at spinning off companies. This is why ILO exists; it's really a matchmaker."

The conference was sponsored by the Faculty of Business, the Office of the VP (Research and External Affairs), Industry Liaison Office, Alberta Heritage Foundation for Medical Research, Economic Development and Tourism, and Vencap. ■

OUR APOLOGIES

The Office of Human Rights' Annual Report, which was circulated with the last edition of *Folio*, contained an acknowledgement of the many campus offices and agencies which had assisted the Office with its work in 1995. Inadvertently, the report omitted the Office of the Student Adviser. Natalie Sharpe, who has served the University as Student Adviser for a number of years, continued throughout 1995 to be of great help to the Office of Human Rights, which apologizes for the omission.

Just what was said ...

Editor's note: In recent issues, *Folio* has published excerpts from speeches commenting about our University. The speakers who have been quoted are: Greg Hollingshead, Professor of English; MLA Don Massey; Peter Greene, a member of the Faculty of Arts Visiting Committee; and Premier Ralph Klein. This week, comments delivered by Jim Donlevy, former Golden Bears football coach, on the occasion of his induction and that of four others into the University of Alberta Sports Wall of Fame.

I remember when, as a neophyte coach—fresh from a Vanier Cup victory—a young local radio personality,

Wes Montgomery, gave me a great piece of advice: "Stay humble."

Other highs and some lows in the span of that career caused me to reflect often on that directive.

But, in the face of the honours and accolades being showered on Becky [Smith Wiber], Sue [Neill], Ed [Lucht], Dave MacKay and myself, it is difficult to have any sense of HUMILITY on this occasion.

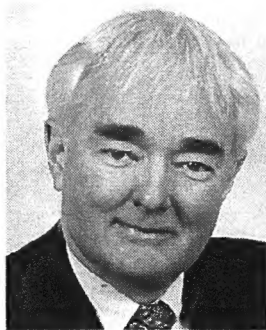
Take a look at the program listing other inductees ... the honour is at once humbling and yet creates a huge sense of pride. To be selected and to share the prestige with these men and women is truly overwhelming.

Being honoured with them brings a flood of memories about "significant others" in our lives at the University ... in our Faculty, among our classmates, teammates, our teachers. Giants like:

- Dr Sandin, the great chemistry professor,
- Dr Maury Van Vliet,
- Dr Hardy (that I couldn't get into his Classics course is a big regret),
- Murray Smith (my friend and personal mentor),
- Pat Austin, the great teacher,
- Reg Lister and Earl Fauner,
- Costa Krisanthou,
- WD Smith, Becky's dad, who was my Faculty adviser and who got me through more than one crisis, and
- Myer Horowitz, who understood as well as anyone that sport is an integral part of the University mosaic.

It was these people (among others) who helped me and my colleagues learn that understanding the limitations of human beings and oneself is the beginning of wisdom.

When searching for something profound to say tonight, the word "risk" popped up.



Jim Donlevy

Because it is risk that probably typifies all the athletes, coaches, teachers, and administrators who have made a significant contribution to this University through their involvement in sport, including, specifically, those who are (or will be) on the Wall of Fame.

Risk is inherent to life. There is fear of failure. But fear of risk ... now that is legitimate.

I have a favoured philosopher. He's an Australian named John Laws who is noted for lovely little one-liners like: Ignorance and stupidity are far from the same thing ... stupidity is incurable.

He also had some thoughts about risk, including: To laugh is to risk appearing

the fool. To cry is to risk appearing sentimental. To reach out for another is to risk involvement. To expose feelings is to risk exposing your true self. To place your ideas and dreams before a crowd is to risk their loss.

Laws also said that risk must be taken because the worst thing you can do is to risk nothing. And: The person who risks nothing has nothing and is nothing. They may avoid suffering and sorrow, but they cannot learn, fee, change, grow, love, or live.

Only a person who risks is free.

Because these leaders have chosen to risk, they are free and will remain so ... to continue making contributions to their community and their country.

We share with our family and our loved ones this special moment, and thank the University of Alberta for this recognition and honour. ■



LETTERS TO THE EDITOR

PRIORITIES

Although I was naturally disappointed to learn that the Central Research Fund had been terminated for workers in the NSERC and MRC areas, my spirits were lifted when I read (*Folio*, 4 April 1996) that the University had nevertheless managed to retain sufficient resources to support such essential activities as issuing Safe Driving certificates and newly designed University of Alberta pins to its employees. It is certainly reassuring to know that, in these times of financial stringency, the administration has given such careful scrutiny to its activities that resources are focused only on the most basic functions of a University. I very much hope that funds can still be found to send some green balloons to the Insurance and Risk Management Office as an expression of the University's gratitude.

Martin Sharp
Associate Professor of Earth
and Atmospheric Sciences



Photo Services

Special ceremony at Faculté Saint-Jean

Joanne Ross, a BEd graduate at Faculté Saint-Jean, signs the register as Dean Claudette Tardif looks on. In recognition of their 1996 graduates, the Faculté held a special ceremony (27 April) based upon light as a symbol of life, and light as a symbol of knowledge and learning. The one-hour ceremony, which will be held annually, took place in the Faculté's Auditorium, and was followed by a banquet at the Convention Centre.

CALL FOR LETTERS OF INTENT TO THE Health Services Research and Innovation fund

According to a November 1995 agreement with Alberta Health, The Alberta Heritage Foundation for Medical Research (AHFMR), is now administrating the Health Services Research and Innovation Fund (HSRIF) on behalf of Alberta Health.

AHFMR invites individuals/organizations interested in applying for funding from the HSRIF to submit a letter of intent no later than June 15, 1996.

This is a competition. Based on the opinion of expert reviewers, the Foundation will invite formal proposals from some applicants submitting letters of intent. To be successful at the letter of intent and at the formal proposal stages, projects must meet the following criteria:

1. Research studies that focus on the outcomes of health services, that is, demonstrated results of health service interventions on the health status of individuals, groups, or populations. The research must be well-designed and intended to directly or indirectly improve or maintain the health of Albertans.
 2. A comparison must be made which demonstrates the appropriateness and effectiveness of an intervention or innovation in the development, organization and delivery of health services (i.e., comparative between: a) groups; b) standards; c) practices, or d) time series (pre/post) or an alternative method of delivery of interventions.)
- AND,
3. All things being equal, preference will be given to those studies that examine cost effectiveness of the health intervention or innovation.

For further information, please contact Dr. Jacques Magnan, Director, Grants and Awards, at the AHFMR,

email: jmagnan@ahfmr.ab.ca - OR - postmaster@ahfmr.ab.ca

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NRC moves to electronic publishing

Two of the National Research Council's scientific journals, the *Canadian Journal of Fisheries and Aquatic Sciences* and the *Canadian Journal of Physiology and Pharmacology*, can now be found on the Internet.

The journals publish more than 600 original research articles annually. Readers have online access (free of charge for the first year) to both journals. Subjects can be

located through the table of contents and keyword searches can be done in targeted areas. Images can be enlarged for detailed examination.

The journals are located at these Internet sites: <http://www.nrc.ca/cisti/journals/cjfas.html> and <http://www.nrc.ca/cisti/journals/cjpp.html> ■

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Fifteen minutes of fame turns out to be a little longer than expected for history professor

The experience changes Marples' outlook on people, academe and his own country

By Michael Robb

David Marples thought he had had his 15 minutes of fame in 1986.

When the Chernobyl nuclear power plant disaster occurred, the history professor was thrust into the media spotlight. Suddenly, his research was highly sought after.

Hundreds of lectures, innumerable publications and a couple of books later, Dr Marples once again finds himself in the limelight. It's the tenth anniversary of the world's worst nuclear disaster, and interest is once again resurgent.

His agenda is hectic: A keynote speech in Minsk sponsored by the Belarusian Academy of Science; keynote speeches on the political and social impact of Chernobyl at the Universities of Yale and Columbia; a keynote lecture at the Univer-

sity of Toronto; an address to the Ukrainian Professional and Business Club in Calgary; a lecture at McGill University in Montreal; a speech at the Ukrainian Centre in Philadelphia; and this month, Dr Marples' new book, *Belarus: From Soviet Rule to Nuclear Catastrophe*, will be published by Macmillan Press and a Canadian edition will come out shortly after that from the University of Alberta Press.

"I've seen the extremes of human nature," he says, reflecting on the last 10 years of intensive study. "I've seen people lie outright about things that were very obvious to me. Yet I think it's given me some cause to be optimistic about human nature," he says, citing a selfless act of a woman in Ireland who went to a great deal of work to provide appropriate food

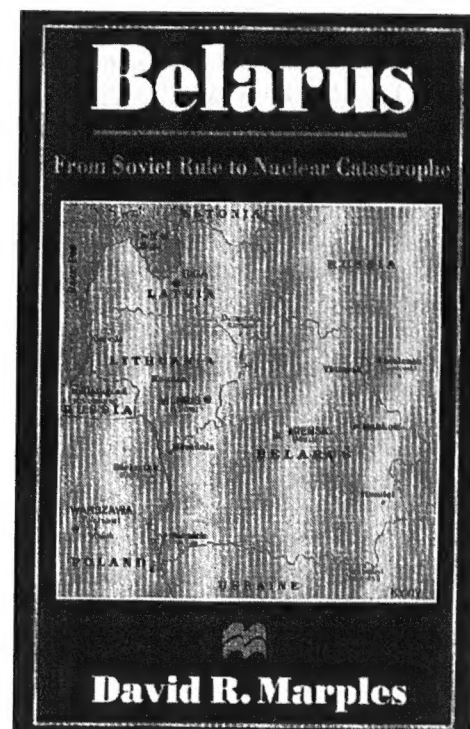
for a child in Minsk suffering from a rare disease. "By contrast, I met government officials in Minsk who actively tried to stop food supplies and humanitarian aid at the border."

He's been a witness to an incredibly debilitating sociological phenomenon. "The whole Soviet period seems to have brought about this feeling among the population that the government actually takes care of things. It's very hard for them to realize that if they want to, they can do things for themselves and form their organizations." Dr Marples likes the term "learned helplessness" to describe what's happened. Its origins are rooted in the religion and the need to cope in a repressive society, he speculates. "There's something much deeper here than simply an accident and its consequences."

The experience has also caused him to reflect on his Canadian home, where he says there's a general sense of optimism despite the whining. He feels exhilarated when the plane lifts off from Minsk. "The overwhelming reaction is one of relief. I need to get out of that atmosphere for a while, although I always plunge myself back into it. I always look forward to going back."

The 15—or going on 20—minutes of fame has also caused him to reflect on how research is conducted, and how it has changed in his own field over the last decade. "I think it's made my approach to academia quite different," says Dr Marples, who at the time of the Chernobyl accident was untenured and working on the history of nuclear power in the Soviet Union.

Suddenly he was working on something that received international attention.



Centre for Gerontology included in \$1.5M gift for Alzheimer research

By Folio staff

Two well-known Edmonton residents, Ches and Alma McConnell, have donated \$1.5 million to the University of Alberta Foundation. The money ultimately will be used to support development of the CAPITAL CARE Group's Alzheimer Care Centres and to promote ongoing research related to Alzheimer disease.

"Alzheimer. Ten years ago it was just a word," said Alma McConnell as she took the podium at a special celebration last week at the Alzheimer Care Centre at 9113 144 Avenue. "Now, Alzheimer's has personally touched my family. It is our hope that this gift will encourage others to come forward and give," she added.

Ches McConnell was first diagnosed with Alzheimer's 10 years ago.

In recognition of the gift, The CAPITAL CARE Group is naming the centre McConnell Place North. In making the dedication announcement, Lorree Reid, chair of The CAPITAL CARE Foundation Board, said that a second Alzheimer's centre, McConnell Place West, would be constructed in the city's west end.

Lou Hyndman, Chancellor of the University of Alberta, accepted the gift on behalf of the University of Alberta Foundation. "Research is at the heart of what we do as an institution and we are delighted that the McConnells would consider us a worthy recipient of these funds," the Chancellor declared.

The University of Alberta's Centre for Gerontology will lead the programs that complement the ongoing research related

to the study of Alzheimer's disease. The Centre will work with The CAPITAL CARE Group to explore and develop more appropriate housing and care options for those with long-term care needs, including the construction of residential centres for individuals with Alzheimer's disease.

The CAPITAL CARE Group is the largest public provider of continuing care services in the country, operating six continuing care centres - CAPITAL CARE Dickinsfield, Grandview, Lynnwood, Norwood, Mewburn Veterans Centre, and the Alzheimer Care Centre; community outreach services including day and night programs, respite care and Family Care Homes; and innovative new models of service such as Care Housing. ■



Ches and Alma McConnell pose for photographs following the ceremony at which they announced their gift of \$1.5 million to the University of Alberta Foundation.

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More than 25 faculty from the various health disciplines have been involved in developing and teaching the course, and they work closely with tutors from clinical programs in the health region. "We're getting enquiries from people at other universities who have heard about the course and want to start something like it," Dean Moskalyk says. "I've been traveling to a number of leading universities as we plan for our new Pharm D Program, and none of them have anything like our Council."

CCHS received further encouragement when it hosted a visit from the Consortium of Institutes of Higher Education in Health and Rehabilitation in Europe last November. The visit resulted from earlier discussions between the consortium and the Faculty of Rehabilitation Medicine; the U of A was the only Canadian university on the itinerary.

A few weeks later, the international subcommittee of CCHS had developed a proposal in cooperation with COHERE, Dalhousie University and the Canadian Public Health Association for submission to the Canada-European Community Program for Cooperation in Higher Education and Training. This proposal, if successful, will result in collaborative development of an interdisciplinary course at the master's level, to be credited by all participating universities.

Marnie Wood, Dean of Nursing and current Chair of CCHS, feels that team momentum is growing. "We're getting better at reorganizing opportunities for teamwork, and faster at taking advantage of them. Our new Telehealth Centre actually began with an initiative in Rehabilitation Medicine but [Dean] but Al Cook brought it to the Council. We all thought it was a great idea and we're already using it for new kinds of interdisciplinary teaching involving faculty members and clinicians and patients at Two Hills.

"At our last meeting Lorne Tyrrell [Dean of Medicine and Oral Health Sciences] suggested that we develop some common policies in the area of health protection for students in all of the health sciences. "We've found ways to share learning resources. But our most important achievement is the ability to support each other in acting quickly to respond to opportunities for innovation."

The University of Alberta participates in the Quality Network for Universities supported by the Conference Board of Canada. Vice-presidents of participating universities will meet at the U of A in mid-May. Later this month, CCHS will present a case study and report of initial outcomes to the Canadian Society for the Study of Higher Education. ■

Waleed Al-Salam, 1926 - 1996

By SD Riemenschneider and Z Ditzian

Friends and colleagues in the University and throughout the community of specialists in his chosen area of research were saddened by news of the passing of Waleed Al-Salam, Professor Emeritus of Mathematics at the University of Alberta. Born on 15 July 1926 in Baghdad, Iraq, he died just a few months short of his 70th birthday on 14 April 1996 in Edmonton. He is survived by his wife Nadhla Al-Salam, also recently retired from the Department of Mathematical Sciences, six children and five grandchildren.

Waleed studied at the University of California, Berkeley, earning a bachelor's degree in Engineering Physics in 1950 and a MA in Mathematics in 1951. He returned to Baghdad as an instructor at the College of Science for a few years, before enrolling for the PhD program at Duke University. He completed the degree in 1958 with a thesis "On the Bessel Polynomials" written under the supervision of Leonard Carlitz. By this time he was already a regular contributor to the periodical literature with some 20 published articles on a variety of topics in orthogonal polynomials and special functions.

After completing his PhD, Waleed returned to the College of Science in Baghdad as associate professor. Coming back to North America in 1962, he had brief sojourns at Duke University, Texas Tech and The University of Calgary before he took a position at the University of Alberta in 1966. He was promoted to Professor of Mathematics the next year and remained with the University until his retirement in 1992.

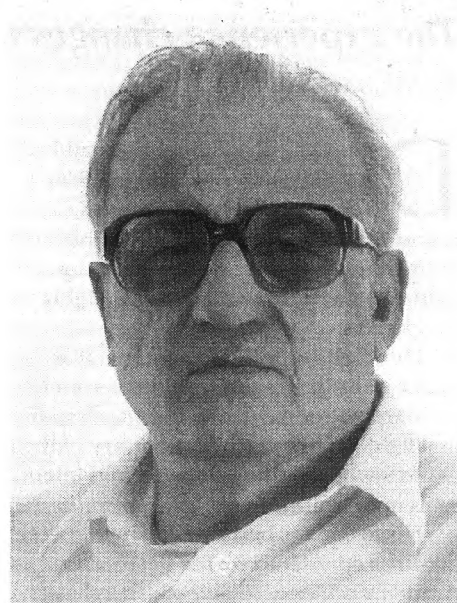
Waleed Al-Salam served the department, the University and the mathematical community in many ways. As Acting Chair in 1968-69, he led the department against a challenge to the Mathematics branch library. The preservation of the library has

been vital to the department's growth in prominence and its success in scholarly activity and research. He also played an influential role in a similar recent attack on the library.

While Waleed Al-Salam had already established a research reputation before joining the University of Alberta, the main body of his research was achieved here and helped establish the U of A among the strongest Canadian centres in classical analysis with worldwide recognition. Waleed contributed to several areas related to orthogonal polynomials; his publications include more than 80 articles. Areas covered by his work include characterization theorems, Turan expressions, generating functions, summation formulas, q-analogs, and fractional operators. He and his collaborators did much work on various special and generalized systems of orthogonal polynomials. The Al-Salam-Carlitz polynomials (1965) are still frequently cited, as is his work with Richard Askey (Wisconsin), his former students Bill Allaway and Mourad Ismail, and others on q-series and q-polynomials which has important applications to quantum physics.

Waleed was a very conscientious adviser to his PhD students. He was particularly gratified by the success of Mourad Ismail, who is now an internationally-known scholar and editor in the area.

Waleed had been actively involved in the international community of scholars in orthogonal polynomials and special functions through the organization of conferences, the Society of Industrial and Applied Mathematics Activity Group on Orthogonal Polynomials and Special Functions, and his establishment of an ftp site for papers in the area. This electronic repository has prospered and he contin-



WA Al-Salam

ued to oversee it until last year when his failing health made it necessary to pass the task to Professor Dr Hans Haubold at the UN Office in Vienna.

Waleed had been diagnosed with a form of leukemia in 1993 and this was to reduce his active participation in the department and at conferences in his specialty. Nevertheless, with Nadhla's constant support, he still managed to come in as often as he could and to travel occasionally so that old and new friends were able to benefit from his knowledge and enjoy his optimistic and humorous personality.

We were fortunate to have the benefit of the presence and participation of Waleed Al-Salam through the growth years of the University, and we will miss him. ■

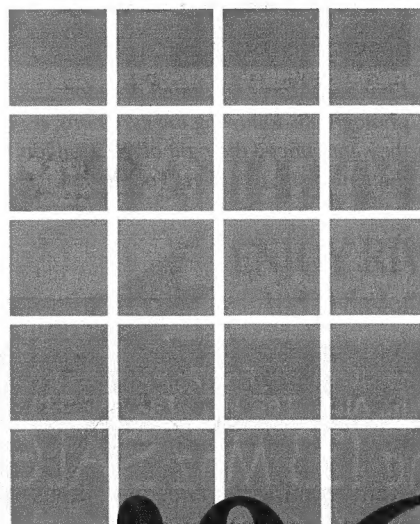
Dr Riemenschneider is Chair of the Department of Mathematical Sciences; Z Ditzian is a Professor of Mathematical Sciences.

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Creativity is planned giving's foundation

By Ron Thomas

Giving what the heart wants to give is often at odds with what the pocketbook says.

It could be a conundrum were it not for planned giving.

Planned giving has more to do with the future than the present. Regardless, the pocketbook need not take a hit at any time.

"For a nominal amount an individual can support the future of the University of Alberta," says Val Hoey, Senior Development Officer responsible for Planned Gifts. Furthermore, such an amount can take many forms, one of the most popular of which is a gift of life insurance. Such a gift, Hoey points out, is of great benefit to both the donor and the recipient because it allows an individual to make large future gifts with a small annual outlay, and to collect taxable benefits today.

Life insurance can be used as a vehicle of wealth replacement. For example, a donor decides to give to the University a gift of books valued at \$200,000. The donor will receive a receipt in that amount, which will then allow him/her to obtain a taxable advantage at year end.

From the tax savings the donor can then take out a life insurance policy in the amount of \$200,000, leaving a tax-free cash legacy for their family.

Another example of a gift of life insurance is the "Million Dollar Legacy." It could unfold like this:

Three 45-year-old friends decide they want to leave a lasting legacy to the U of A. They are not in a position to give what their heart desires, but they do have an option. They take out a Joint and Last to Die Insurance policy on the three of them, in the amount of \$1 million. To fully pay off the policy they must pay a premium of nearly \$40,000.

They don't have \$40,000 between the three of them but they know that they can swing a payment of \$1,000 each. They then contact 37 of their friends and convince them to each pay \$1,000 on the premium (the friends also get a receipt).

Among the 40 people they have come up with a legacy of \$1 million for the Faculty of their choice.

After provincial and federal tax credit, each \$1,000 contribution amounts to \$619.10 out-of-pocket expense.

People with fully paid up life insurance policies could turn them over to the University of Alberta and receive an income tax receipt for the full cash value of the policy, Hoey says.

"With proper planning, your estate can provide for you and your family and give you the opportunity to fulfill your charitable intentions. An important function of the University's Planned Giving Office is to help you realize these objectives through effective estate and gift

planning. We can ensure that your gift will provide the benefits you intend for important research, scholarships, bursaries or building projects while giving you and your beneficiaries the maximum tax advantage."

Planned giving is obviously a very personalized activity. "The donor and potential donor's interests always come first," Hoey says. "You show them everything that's available to them and keep in mind that it's always a case of what's best for them rather than what's best for the University."

All development work is carried out according to the standards of professional and ethical practice set by the Canadian Association of Gift Planners, Hoey stresses.

The Planned Giving Office has visited each Faculty and it continues to conduct mini-workshops and sponsor talks by invited speakers. In progress is a package of brochures, each of which will cover an area of planned giving in detail.

For more information on how to benefit from gift planning strategies, call the Planned Giving Office at 492-4418. ■

Thirteen libraries extend reciprocal borrowing privileges

COPPUL makes it easier for researchers to do research

By Michael Robb

Don't leave home without it. Your COPPUL card, that is.

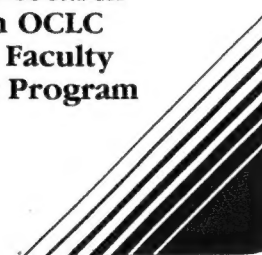
The Council of Prairie and Pacific University Libraries (COPPUL) has extended reciprocal library borrowing and interlibrary loan privileges to faculty, graduate students and staff in 13 university libraries across western Canada.

"This is a logical next step in the overall goal of COPPUL to create a seamless access to the 13 institutions' collections," says Chief Librarian Ernie Ingles, pointing out that the U of A has had a similar arrangement with The University of Calgary for some time.

COPPUL representatives say the agreement will be a distinct advantage to those who are on research sabbaticals, or working or visiting off campus. A faculty member who has a COPPUL card issued from his own library will be able to have access to collections and use library services while visiting other western Canadian libraries.

"One of the major objectives of COPPUL is to break down the barrier that we inadvertently put in the way of our users," says Bill Maes, director of library

Academic Research Libraries in OCLC Reciprocal Faculty Borrowing Program

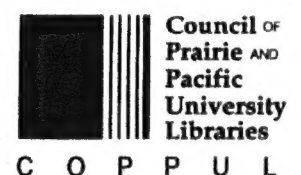


and information services at the University of Regina and chair of COPPUL. "This will enhance the information available to faculty, graduate students and staff all over western Canada."

In the past, says Ingles, a lot of university libraries have been reticent about opening their collections to outside users. Technology has really driven this and now people, through the Internet, know what is available in other library collections.

COPPUL is a consortium of university libraries located in British Columbia, Alberta, Saskatchewan and Manitoba. The member libraries cooperate to enhance information services through resource

Reciprocal Loan Program



sharing, collective purchasing, document delivery and other reciprocal activities.

Perhaps less well-known is the University of Alberta Library's participation in a reciprocal faculty borrowing program involving major universities across North America. The Academic Research Libraries in the Online Computer Library Centre Reciprocal Faculty Borrowing Program extend borrowing privileges to faculty members of other research universities that are Association of Research Libraries members. Many of the major research universities in Canada and the United States are members of ARL. Access cards are available from the U of A Library. ■

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GSA Awards Night marries substance and style

By Folio staff

That the University of Alberta is a research-intensive university was made crystal clear at the Graduate Student Awards Night, 15 April.

Over the course of the evening the 25 recipients of the prestigious Andrew Stewart Memorial Graduate Prize discussed their particular research projects. These included the evolutionary history of amphibians, mathematical modelling of the ocean's dynamics, factors that precipitated outstanding achievements by women in Canada, Finland and Japan, and Russian influences on Woody Allen.

The Andrew Stewart Memorial Graduate Prize is named in honour of Andrew Stewart, President of the University of

Alberta from 1950 to 1959. The \$2,500 Prize is awarded in direct recognition of excellence in research at the doctoral level; it acknowledges outstanding accomplishment and potential in pursuit of new knowledge.

The following students, winners of the Andrew Stewart Memorial Graduate Prize, have completed at least two years of their program and are actively engaged in thesis research:

Lily Avrutin (*Modern Languages and Comparative Studies*)

Doreen J Bartlett (*Rehabilitation Medicine*)

Derek Briton (*Educational Policy Studies*)

Nghia Chiem (*Chemistry*)

Laura L Cousens (*Physical Education and Recreation*)

Roumiana G Deltcheva (*Modern Languages and Comparative Studies*)

David F Duke (*History and Classics*)

Carole A Estabrooks (*Nursing*)

James D Gardner (*Biological Sciences*)

Brian W Gobbett (*History and Classics*)

Barbara A Hofmann (*Civil Engineering*)

Biao Huang (*Chemical Engineering*)

Richard H Karsten (*Mathematical Sciences*)

Janice E King (*Biological Sciences*)

Rebecca J Luce-Kapler (*Secondary Education*)

David A Medler (*Psychology*)

Janet L Menard (*Psychology*)

AF Myrick (*Nursing*)

Colm S O'Cofaigh (*Earth and Atmospheric Sciences*)

John L Plews (*Modern Languages and Comparative Studies*)

William R Rattray (*Agricultural, Food and Nutritional Science*)

Kevin J Robbie (*Electrical Engineering*)

Grace A Schlosser (*Educational Psychology*)

David S Sept (*Physics*)

Laurel K Taylor (*Business*)

Patrick Mayo (Pharmacy and Pharmaceutical Sciences) was awarded the Jack and Zeta Rosen Family Prize and Elizabeth Witherspoon (Elementary Education) was awarded the Senate Prize.

The Alumni Prize went to Kathryn King (Nursing), the Students' Union Prize to Darrin Mayhew (Chemistry), and the Board of Governors Prize to Paul Goerzen (Agricultural, Food and Nutritional Science).

Cindy Heisler (Chemical Engineering) received the GSA Outstanding Non-Academic Staff Award for "extraordinary assistance to graduate students." Dr Bruce Hunter (Philosophy) accepted the GSA Outstanding Academic Award, which recognizes "the outstanding teaching, supervision, advocacy, or assistance offered to graduate students by a member of the academic staff. Darcy Abell (Agricultural, Food and Nutritional Science) won the GSA Graduate Student Service Award. This award goes to a graduate student who has offered outstanding volunteer service to graduate students or to the University community as a whole.

Among the dignitaries present were City Councillors Larry Langley (who presented the GSA Student Service Award), Dick Mather, Michael Phair and Rose Rosenberger. While Jack Ady, Minister of Advanced Education and Career Development could not attend the event, the Graduate Students' Association and the Faculty of Graduate Studies and Research arranged for the next best thing, a videoconference from his office in the legislature.

In congratulating graduate students, President Rod Fraser described the 1995-96 GSA executive as "one of the most get with it, just do it peer sets in our University system."

"The University of Alberta is about creating and transmitting knowledge and graduate students do that every day of their lives," said Vice-President (Academic) Doug Owram. ■

Cossins receives Faculty of Science Award for Excellent Teaching

Respects students and has a gentle sense of humour

By Folio staff



Edwin Cossins excels at turning students on to plant biochemistry and physiology.

colleagues to try to achieve the same high standards," says colleague Key Roy.

The 1995-96 recipient of the Faculty of Science Award for Excellent Teaching has served as a mentor for many who have gone on to become successful researchers and teachers.

Professor Cossins' enthusiasm for teaching is legendary. Throughout his career, he has received uniformly outstanding ratings and laudatory comments from students. Since 1962, he has turned students on to plant biochemistry and physiology. Many graduate students have said he has been their best professor.

A number of themes have emerged in those reviews: respect for students, a great sense of humour, a willingness to spend extraordinary amounts of time helping students, and an unlimited supply of enthusiasm for the subject. Colleague David Gifford adds that Professor Cossins spends a good deal of time preparing for each class.

Professor Cossins' research has also been recognized by his peers. He has received a McCalla Professorship and is a member of the Royal Society of Canada. Originally with the Department of Botany, Dr Cossins is now a member of the Department of Biological Sciences. He is a former Associate Dean in the Faculty of Science. ■

Co-teaching a course with Biological Sciences Professor Edwin Cossins has its drawbacks.

"Any lecturer who shares a course with him must learn to accept the fact that Edwin Cossins will always be a favourite of the students, yet he also inspires his

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Riding a wave

Gordon Swaters awarded 1996 Faculty of Science Research Award

By Michael Robb

As a boy, Gordon Swaters would gaze out on the waters of Lake Huron and watch its never-ending waves crash on shore. Those early childhood experiences have shaped his life—and his career—ever since.

Three decades later, Dr Swaters' fascination with waves and water hasn't faded. It's just gotten a heck of a lot more technical. Now the Professor of Mathematical Sciences is engaged in developing mathematical and computational models to describe the transition from a stable state to instability of winds in the atmosphere and currents in the ocean.

"We think of the jet stream as a river in the atmosphere; the same holds true for the gulf stream in the oceans," explains the Faculty of Science's 1996 recipient of its Research Award. "They tend to meander, break up and become unstable. I'm trying to predict the onset of those conditions of instability."

Dr Swaters, educated jointly as an oceanographer and applied mathematician, says if meteorologists and oceanographers can better understand why these things form, why they persist and why they break down, then ultimately weather and ocean currents will be more predictable.

Before the invention of modern computers, Dr Swaters' work simply wouldn't have been possible. Now, the applied mathematician uses mathematical, computer-aided techniques of fluid dynamics to model the complex circulation patterns of the oceans and atmosphere. He finds the scale and complexity of these processes awe-inspiring.

There are a multitude of unanswered questions. Why, for example, does a turbulent fluid, the atmosphere, remain in a stable state, a high pressure system, that can exist for several days, and then suddenly become unstable? The science is in its infancy, he admits, but a better understanding of some of these processes could eventually lead to better long-range weather forecasting. Modelling ocean dynamics may contribute to a better understanding of climate change. The oceans, he points out, play a big role.

Dr Swaters' work earned him the 1994 President's Prize of the Canadian Meteorological and Oceanographic Society, its most prestigious prize. He was awarded the graduate student prize by the same society for showing that the formation of large-scale ocean eddies in the northeast Pacific Ocean could be correlated to current changes forced by El Nino/southern oscillation events in the tropical Pacific.

The most recent U of A Award is given to outstanding young scientists in the Faculty of Science. He also earned a 1995-96 McCalla Professorship. His work is funded by the federal Department of Fisheries and Oceans, the Atmospheric Environment Service and the Natural Sciences and Engineering Research Council.

Dr Swaters completed his undergraduate honors degree in mathematics at the University of Waterloo and his MSc and PhD in applied mathematics at the University of British Columbia. He is one of only a handful of researchers in the country who understands meteorology, oceanography, and applied mathematics, and who can do the nonlinear mathematics. ■



Gordon Swaters, Faculty of Science Research Award recipient

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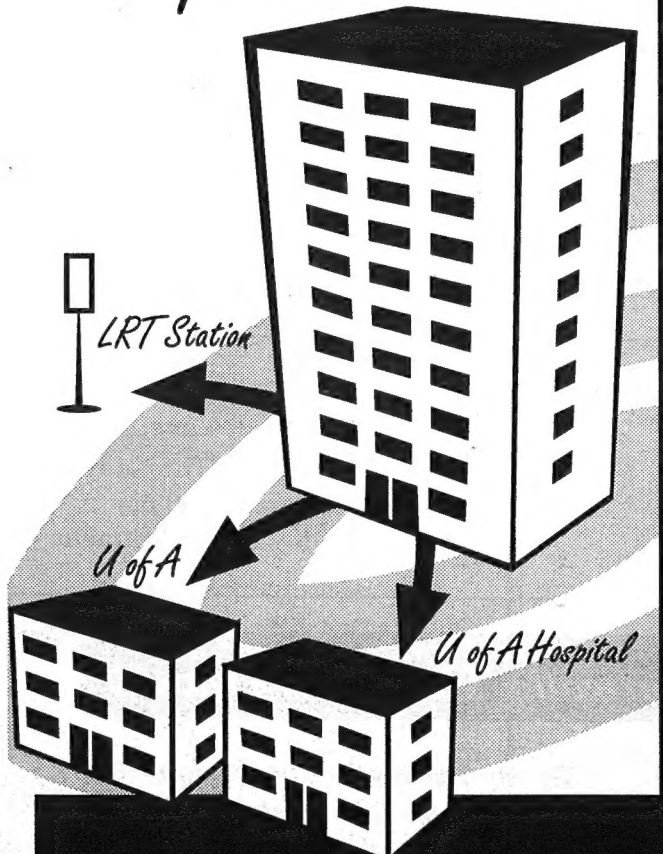
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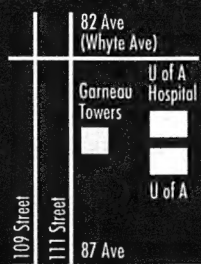
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Music professor a driving force behind establishment of ethnomusicology at U of A

Regula Qureshi awarded 1995-96 Killam Annual Professorship

By Michael Robb

Music Professor Regula Qureshi's work has been motivated by a three-fold question: How and what does music mean? How is the musical experience interior and aesthetic, yet social and political? And how does music serve two fundamental needs: powerfully articulating identity and difference, yet creating powerful connections across differences?

The ethnomusicologist says she's been trying to make sense of those questions while pursuing a multidimensional goal of creating an intellectually rigorous, culturally appropriate and socially engaged music scholarship.

"Most far reaching in its impact is my research connecting music and context in the interpretation of performance, based on embedding music analysis within anthropological theory," says the 1995-96 Killam Annual Professor. "That this constitutes a direct and substantial contribution to shaping the field of ethnomusicology is evidenced in the reprinting of [my book] *Sufi Music of India and Pakistan* by the University of Chicago Press."

Dr Qureshi has carved out a distinctive voice for herself within the "conversation"



Regula Qureshi, an ethnomusicologist respected around the world.

and activities of the discipline. She points out that there has been a serious discussion of the book and related publications in foundational reviews of the field.

"Professor Qureshi is one of a handful of scholars who bring to their music research equal depth of knowledge about two classical musical traditions, Western and Hindustani, not to mention expertise in a social science field, anthropology," says Bonnie Wade, professor of ethnomusicology at the University of California, Berkeley.

That range of scholarship has benefited students. They can now take undergraduate courses in ethnomusicology, thanks, in large part, to Dr Qureshi. They can also learn more about other cultures' music as a result of the introduction of a cross-cultural component in the department's introductory music course. The department now has a graduate program in ethnomusicology and a Centre for Ethnomusicology. She says ethnomusicology courses have moved from the margin toward the centre of music study.

"The ability to mentor each graduate student under her supervision has been a model I would only dream of emulating," says Dr Qureshi's colleague at York University, Beverley Diamond, director of the Graduate Program in Music. "Her stu-

dents learn self-reliance through her caring but incisive engagement with their work."

Despite her heavy University-related responsibilities, Dr Qureshi has established and maintained deep and lasting relationships with community-based organizations such as the Edmonton Ragamala Society.

"The single most outstanding quality amongst Regula's various accomplishments is her indubitable and authentic affection and sincere fondness for South Asian culture and musical heritage which clearly comes across in each of her interactions with this community," says Azra Raza, president of Urdu Mehfil, a nonprofit organization devoted to the promulgation of the literature and cultural heritage of Indo-Pakistani subcontinent in North America.

Dr Qureshi plays cello and sarangi. She speaks several European languages and Urdu and Hindi. She graduated from the degree program in cello at the Curtis Institute of Music in Philadelphia, earned her MA (Germanics) at the University of Pennsylvania and her MMus (Music History) and PhD (anthropology/ethnomusicology) at the University of Alberta. ■

Killam Annual Professor probes Canadian labour market

By Ron Thomas

Killam Annual Professor Harvey Krahn's research and teaching are intertwined.

"I am convinced," the Professor of Sociology says, "that my active research program complements my teaching role, allowing me to incorporate recent research findings into lectures and classroom discussions."

That research program centres on the changing Canadian labour market and addresses basic questions about the unequal distribution of work rewards and about linkages between education and employment.

"Since 1985, Dr Krahn says, "one of my most challenging undergraduate teaching responsibilities has been a sociology course for engineering students [enrollments between 150 and 250]. Although most engineers would presumably not choose this [required] course, teaching evaluations indicate that many come to appreciate the readings and discussion of

social aspects of technology and workplace structures."

In recent studies Dr Krahn has examined the polarization of employment opportunities within the expanding service industries, the increase in nonstandard (for example, part-time, temporary) jobs, and the causes and consequences of unemployment and underemployment.

"The work that he has done with Dr [Graham] Lowe on school-work transitions is probably the most important of its kind in Canada, and has led to strong links with European countries," notes CR Hinings, of the Faculty of Business.

Dr Krahn's publications include *Fractured Transitions From School to Work: Revisiting the Dropout Problem; Work, Industry and Canadian Society* (coauthor: Graham Lowe), and *Quality of Work in the Service Sector*.

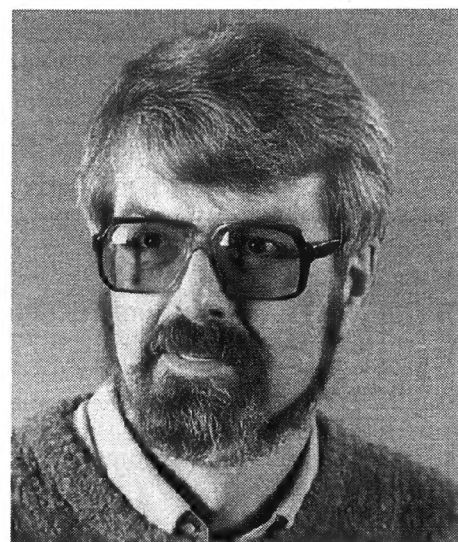
He has been coordinating editor of *Canadian Studies in Population*, and associate editor of *Canadian Review of Sociology and Anthropology*.

Dr Krahn was Director of the Population Research Laboratory, Department of Sociology, from 1987 to 1993.

Noting Dr Krahn's service on the Graduated Survey Committee since its inception in 1991, Brian Silzer, Associate Vice-President and Registrar, says, "He has provided leadership in all aspects of the project from conceptualization to data collection, analysis and report generation. "His involvement clearly extends beyond his high level committee participation to include interpretation of our findings to senior university committees and the presentation of our project at conferences and in the literature."

Externally, Dr Krahn has played a leading role in United Way's pinning down of funding priorities and assessment of human service needs in the community. Specifically, he advised United Way on statistical gathering and presentation and, as part of the data gathering, helped recruit more than 100 volunteers who worked on a two-stage delphi study that he helped design.

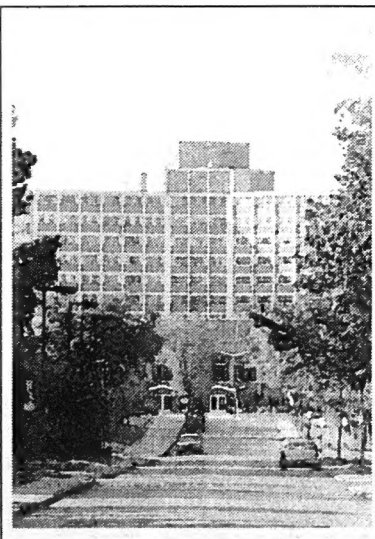
"He facilitated focus group workshops, he helped us pull together all our



Harvey Krahn, 1995-96 Killam Annual Professor.

data into a final document form and he continues to be available anytime we need someone to help present the information to interested community members," says Don Taylor, vice-president, Agency and Community Services. ■

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CHEMISTRY

6 May, 11 am
Craig S Wilcox, Department of Chemistry, University of Pittsburgh, "Electrostatic Effects in Binding, Reactivity, and Catalysis." V-107 Physics Wing.
27 May, 11 am
Steven P Tanis, associate director, Discovery Chemical Pharmacia and Upjohn, Inc., "Furan Terminated Cationic Cyclizations in Alkaloid Synthesis." V-107 Physics Wing.

COMPUTING SCIENCE

6 May, 3:30 pm
Alan W Brown, senior member of the technical staff, Software Engineering Institute, Carnegie Mellon University, Pittsburgh, "Assembling Integrated Case Environments." 112 V-Wing.

EDMONTON SOCIETY FOR URBAN AND ARCHITECTURE STUDIES

8 May, 8 pm
Kees Prins, an Edmonton architect, "A Tribute to Peter Hemingway." Admission: \$3 members, \$5 nonmembers. Auditorium, Provincial Museum.

CENTRE FOR GERONTOLOGY

27 May, 7:30 pm
Jan MacElhaney, "The Changing Face of Health Care for Seniors in the Capital Health Region." 2-50 University Extension Centre.

PERINATAL RESEARCH CENTRE

16 May, 8 am
Joseph A Kitterman, professor, Department of Pediatrics, University of California, San Francisco, "Mechanical Forces and Fetal Lung Growth and Maturation." 2F1.04 Mackenzie Health Sciences Centre.

PHYSICS

6 May, 3:30 pm
Nicola Cabibbo, professor of Elementary Particle Physics, University of Rome La Sapienza, and president, The National Agency for New Technology, Energy and the Environment, "APEmille and PQE2000, The Architecture and the Evolution of the APE-Quadrics Parallel Computers." Cosponsor: The Embassy of Italy. V-129 V-Wing.

PHYSIOLOGY

3 May, 3:30 pm
Richard Stein, "Neuroscience to the Marketplace." 207 Heritage Medical Research Centre.



EVENTS

EXHIBITIONS

FAB GALLERY

7 to 19 May
BFA Design Graduating Show 1996. Gallery hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 to 5 pm; Saturday, Monday and statutory holidays, closed. 1-1 Fine Arts Building.

STUDIO THEATRE

2 to 11 May, 8 pm
"Life Without Instruction" by Sally Clark. Tickets: 492-2495. Timms Centre for the Arts.

University partners to establish distance learning project

Computer products designed to provide universal access

By Sandra Halme

The University of Alberta's Faculty of Education, along with 16 partners, primarily from Alberta, are pooling their resources to fill a significant gap in the delivery of distance education. The result is the Adaptive Multimedia Education Enabler (AMEE), a family of computer products designed to provide universal access to distance learning opportunities.

The \$2.5 million project is an exciting challenge for learners, communities,

"The complexities of the interface will be largely invisible to the learner and educator, making distance education user-friendly and readily accessible for all."

Craig Montgomerie

course providers and technology developers that demonstrates the value of the information highway as an educational thoroughfare. Currently, there is no single interface which can provide a common bridge between course providers of distance education and the many types of computers in community learning centres and peoples' homes. AMEE intends to fill this gap.

Craig Montgomerie, Associate Professor of Educational Psychology, Educational Policy Studies and Technology in Education, is the University's AMEE representative and one of only two researchers associated with the project. "The complexities of the interface will be largely invisible to the learner and educator, making distance education user-friendly and readily accessible for all, he says." The project, which has been in the planning stages for the past two years, will also contribute to the provincial economy, Dr Montgomerie says. "AMEE will be made commercially available to distance learning organizations worldwide," he says, adding that "we all share a recognized need for a common link between clients

and content." The commercialization partner is Integrated Systems Applications Corp of Calgary.

According to Dr Montgomerie, all Albertans will benefit from educational opportunities at home or through community access centres. "The project will allow learners, course providers and community access centres to take advantage of video, audio, print and visual learning aids, using the creative application of technology to enhance the interactive quality of learning," he emphasizes. He goes on to say that it will also open doors for learning

from regional providers and international centres.

The entire project, from system design to field trials, is scheduled for completion by the end of 1996, with implementation to take place in January 1997. In addition to the U of A, other partners include AGT Limited, which, as the major grant holder, assumes responsibility for the project; The Banff Centre for the Arts; Alberta Science and Research Authority; TRLabs; High Performance Computing Centre; The University of Calgary; and Alberta Vocational College. ■



AWARD OPPORTUNITY

MICHAEL SMITH AWARD FOR EXCELLENCE 1 JUNE 1996 COMPETITION

In 1993, Michael Smith shared the Nobel prize for Chemistry for discovering and developing a crucial technique, known as site-directed mutagenesis, used in genetic engineering. His discovery enabled researchers to gain enormous insights into the structure and function of genes and proteins. To honour Dr Smith, the Medical Research Council of Canada has established the Michael Smith Award for Excellence.

The MRC offers, each year, the Michael Smith Award for Excellence. The award consists of a medal and a \$50,000 research grant to recognize an individual who demonstrates exceptional creativity and innovation in health research. These individuals must have completed their formal training, have no more than 12 years' experience as independent investigators since completion of their formal training and hold a position within a Canadian academic, hospital, industrial or governmental institution or affiliated research institution.

To date, two competitions have been held for this prestigious award. Dr Philippe Gros from the Department of Biochemistry at McGill University was named the 1994 recipient, and Dr John Wallace from the Department of Pharmacology and Therapeutics at The University of Calgary was the 1995 recipient.

Nominations are now being accepted for the 1996 competition. Each candidate must be nominated by a member of the Canadian health research community and endorsed by the executive head of the candidate's institution.

Nominations must be received by the Medical Research Council, 5th Floor, 1600 Scott Street, Ottawa, Ontario K1A 0W9, by 1 June 1996.

The successful candidate will be notified by November.

For more information, contact: Dr Mary Ann Linseman, Deputy Director, Programs Branch. Telephone: 613-954-1816. Fax: 613-954-1800. E-mail: malinseman@hpb.hwc.ca.

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Applications are invited for full-time tenure track positions in the Department of Physical Therapy at the University of Alberta. The Department is located in renovated facilities within the Faculty of Rehabilitation Medicine and offers two degrees: an entry-level BSc degree in Physical Therapy, and an MSc degree in Physical Therapy. The Department also participates fully in an interdisciplinary PhD degree program in Rehabilitation Science.

Faculty members in the Department have active research affiliations with the Perinatal Research Centre, the Gerontology Centre, the Rick Hansen Centre (studies of spinal cord injured athletes), the Division of Neuroscience, and the Glen Sather Sports Medicine Clinic. Within the Faculty of Rehabilitation Medicine, the Centre for the Study of Clinical Education conducts research and training workshops related to clinical supervision, and the Rehabilitation Research Centre is a focal point for multidisciplinary basic and clinical research. Close working relationships exist with the Glenrose Rehabilitation Hospital and other community-based programs in physical therapy. The Department is also actively engaged in international education, service and research programs.

Qualified candidates should hold a doctoral degree and have a proven record of scholarly activity in teaching and research. Candidates with expertise in clinical research are preferred, but others will be considered.

Rank and salary will be commensurate with qualifications: Assistant Professor range: \$39,230 to \$55,526; Associate Professor range: \$48,572 to \$69,664. Deadline for applications: 30 June 1996. The position is available 1 August 1996. Send curriculum vitae and names of three references to:

Dr Albert Cook, Dean, Faculty of Rehabilitation Medicine, 3-48 Corbett Hall, University of Alberta, Edmonton, Alberta T6G 2G4 Telephone: 403-492-5991. Fax: 403-492-1626.

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